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-	18	neural and pulse\$1 and discrimination and maxim\$4 and interactive\$2 and electroencephalogram	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:13

-	10	neural and pulse\$1 and discrimination and maxim\$4 and interactive\$2 and electroencephalogram and gradient	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:15
-	8	neural and pulse\$1 and discrimination and maxim\$4 and interactive\$2 and electroencephalogram not gradient and optimi\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:16
-	0	(neural and pulse\$1 and discrimination and maxim\$4 and interactive\$2 and electroencephalogram not gradient and optimi\$6) and alopex	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:16
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-	1	neural and pulse\$1 and discriminat\$3 and maxim\$4 and interactive\$2 and neuron\$1 and iterat\$3 and ((time adj span) or temporal) and end\$3 and electroencephalogram not gradient and optimi\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:43
-	39	alopex	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:25
-	7	alopex and probability	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:28
-	2	(alopex and probability) and classification	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:28
-	1	(neural and pulse\$1 and discriminat\$3 and maxim\$4 and interactive\$2 and neuron\$1 and iterat\$3 and ((time adj span) or temporal) and end\$3 and electroencephalogram not gradient and optimi\$6) and classif\$7	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:44
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-	1	((((neural and pulse\$1 and discriminat\$3 and maxim\$4 and interactive\$2 and neuron\$1 and iterat\$3 and ((time adj span) or temporal) and end\$3 and electroencephalogram not gradient and optimi\$6) and classif\$7) and signal) and computer	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:45

-	1	neural and pulse\$1 and discriminat\$3 and maxim\$4 and interactive\$2 and neuron\$1 and iterat\$3 and ((time adj span) or temporal) and end\$3 and electroencephalogra\$2 not gradient and optimi\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:46
-	1	(neural and pulse\$1 and discriminat\$3 and maxim\$4 and interactive\$2 and neuron\$1 and iterat\$3 and ((time adj span) or temporal) and end\$3 and electroencephalogra\$2 not gradient and optimi\$6) and classif\$7	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:44
-	1	((neural and pulse\$1 and discriminat\$3 and maxim\$4 and interactive\$2 and neuron\$1 and iterat\$3 and ((time adj span) or temporal) and end\$3 and electroencephalogra\$2 not gradient and optimi\$6) and classif\$7) and signal	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:45
-	1	((((neural and pulse\$1 and discriminat\$3 and maxim\$4 and interactive\$2 and neuron\$1 and iterat\$3 and ((time adj span) or temporal) and end\$3 and electroencephalogra\$2 not gradient and optimi\$6) and classif\$7) and signal) and computer	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:45
-	1	neural and pulse\$1 and discriminat\$3 and maxim\$4 and interactive\$2 and neuron\$1 and iterat\$3 and ((time adj span) or temporal) and end\$3 and electroencephalogra\$4 not gradient and optimi\$6 and classif\$7 and signal and computer	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:46
-	39	(neural and pulse\$1 and discriminat\$3 and maxim\$4 and interactive\$2 and neuron\$1 and iterat\$3 and (time or temporal)) and train\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:58
-	25	((neural and pulse\$1 and discriminat\$3 and maxim\$4 and interactive\$2 and neuron\$1 and iterat\$3 and (time or temporal)) and train\$3) and span	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 10:58
-	284103	time adj (span or period)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 11:07
-	11	(time adj (span or period)) and (((neural and pulse\$1 and discriminat\$3 and maxim\$4 and interactive\$2 and neuron\$1 and iterat\$3 and (time or temporal)) and train\$3) and span)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 11:08
-	20	(time adj (span or period)) and (neural and pulse\$1 and discriminat\$3 and maxim\$4 and interactive\$2 and neuron\$1 and iterat\$3 and (time or temporal))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/01 11:08
-	424	(finite adj element adj method) and gradient	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:11
-	150	((finite adj element adj method) and gradient) and @pd<=19980825	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:11

-	288	(finite adj element) same gradient	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:11
-	97	((finite adj element) same gradient) and @pd<=19980825	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:12
-	7	alopex and gradient	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:25
-	32	alopex not gradient	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:26
-	16	alopex not alopex.as.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:39
-	21	(alopex not gradient) not (alopex adj ind)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:40
-	11	(alopex not gradient) and (alopex adj ind)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:40
-	15	(alopex not alopex.as.) not (alopex adj ind)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:41
-	0	((alopex not gradient) and (alopex adj ind)) and ((alopex not alopex.as.) not (alopex adj ind))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/01/02 18:41

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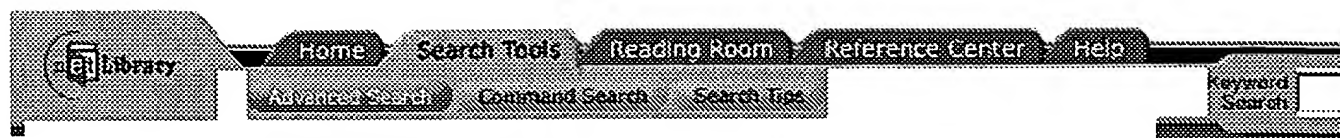
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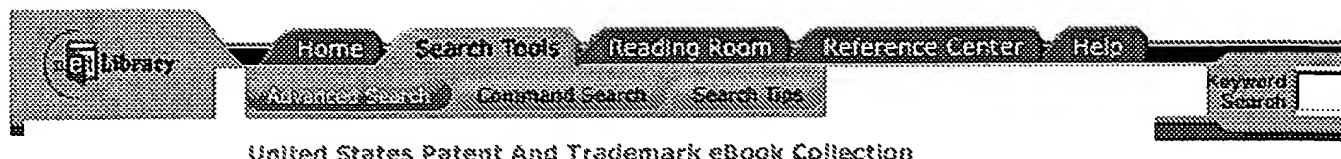
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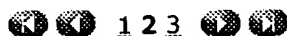
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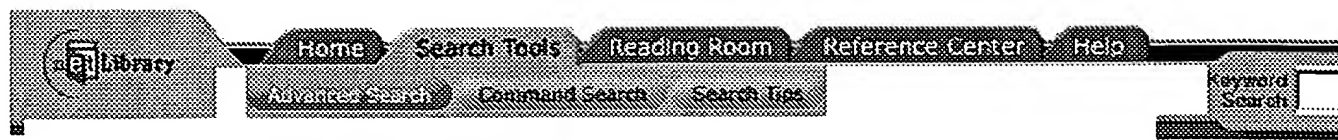
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5766601, A9801-9385-052, B9801-7730-012, C9801-7840-009; 971125.

Title

Combining structural and spectral information for **discrimination** using **pulse** coupled **neural** networks in multispectral and hyperspectral data.

Author(s)Cooley-J-H; Cooley-T-W; Ed. by Stein-T-I.**Source**

IGARSS'97. 1997 IEEE International Geoscience and Remote Sensing Symposium Proceedings. Remote Sensing - A Scientific Vision for Sustainable Development, vol.4, Singapore, 3-8 Aug. 1997.

Sponsors: IEEE Geosci. & Remote Sensing Soc., Centre for Remote Imaging, Sensing & Processing, Nat. Univ. Singapore, NASA, NOAA, Office of Naval Res., URSI.
In: p.1666-8 vol.4, 1997.

ISSN

ISBN: 0-7803-3836-7, CCCC: 0 7803 3836 7/97/ (\$10.00).

Publication year

1997.

Language

EN.

Publication type

CPP Conference Paper.

Treatment codes

P Practical; T Theoretical or Mathematical.

Abstract

The emerging field of dynamic **neural** networks motivated by recent biological understanding of the way in which the brain encodes **discrimination** information in a **time** signal from a large, multi-layered image suggests an approach to fusing data. Pulsed coupled **neural** networks (PCNNs) have shown a robust ability to segment a single spectral band image into segments for terrain categorization but have not proven to be very robust in structural identification. However, linking fields of PCNNs can easily be configured for scale and/or rotation invariance. Using a variation on the Eckhorn 1990 pulsing **neuron** model, a PCNN is constructed to reduce the structural information with the spectral information of a coarse resolution hyperspectral image. The configuration of the linking network is studied to try to yield meaningful pulsing signals that can be combined for enhanced segmentation or **discrimination**. (4 refs).

Descriptorsgeophysical-signal-processing; geophysical-techniques; geophysics-computing; image-segmentation;

neural-nets; remote-sensing; sensor-fusion.

Keywords

geophysical measurement technique; land surface; terrain mapping; multidimensional signal processing; image processing; spectral information; **pulse** coupled **neural** network; **neural** net; multispectral remote sensing; hyperspectral remote sensing; dynamic **neural** networks; data fusion; pulsed coupled **neural** network; terrain categorization; image segmentation; structural identification; pulsing **neuron** model.

Classification codes

A9385 (Instrumentation and techniques for geophysical, hydrospheric and lower atmosphere research).

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A9365 (Data and information; acquisition, processing, storage and

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B6140C (Optical information, image and video signal processing).

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 Pages:389 - 392 vol.1

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2 A new approach to formant estimation and modification based on p interaction

Yung-Sheng Hsiao; Childers, D.G.;
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 Pages:663 - 671

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